

What is claimed is:

- 1 1. A reflector structure in a multi-domain liquid crystal display comprising:
 - 2 an active matrix device structure, said active matrix device structure having at least
 - 3 one region of different height level thereon;
 - 4 a diffusing layer being formed above said active matrix device structure, said
 - 5 diffusing layer having a plurality of extruded bumps of various film thickness and
 - 6 various heights and shapes thereon; and
 - 7 a structure of a multi-domain reflective layer being deposited on said diffusing layer.
- 1 2. The reflector structure in a multi-domain liquid crystal display as claimed in claim 1,
 - 2 wherein said diffusing layer is a layer of photo-resist material having an average film
 - 3 thickness between one-twentieth of a cell gap to one cell gap.
- 1 3. The reflector structure in a multi-domain liquid crystal display as claimed in claim 1,
 - 2 wherein the average height difference of said at least one region of different height
 - 3 level is between zero to one-third of a cell gap.
- 1 4. The reflector structure in a multi-domain liquid crystal display as claimed in claim 1,
 - 2 wherein said extruded bumps have average slope angles between zero to 10 degrees.
- 1 5. The reflector structure in a multi-domain liquid crystal display as claimed in claim 1,
 - 2 wherein said structure of a multi-domain reflective layer is the structure of a
 - 3 reflective layer of a reflective twisted nematic, super twisted nematic, thin film
 - 4 transistor or thin film diode.
- 1 6. The reflector structure in a multi-domain liquid crystal display as claimed in claim 1,
 - 2 wherein said structure of a multi-domain reflective layer is the structure of a

3 reflective layer of a semi-reflective twisted nematic, super twisted nematic, thin film
4 transistor or thin film diode.

1 7. A multi-domain liquid crystal display comprising the reflector structure as claimed in
2 claim 1.

1 8. The multi-domain liquid crystal display as claimed in claim 7, said liquid crystal
2 display being a reflective, or semi-reflective thin film transistor liquid crystal display.

1 9. The multi-domain liquid crystal display as claimed in claim 8, said liquid crystal
2 display being a self-compensated twisted nematic, reflective twisted nematic,
3 reflective electrical controlled birefringence or mixed mode twisted nematic thin film
4 transistor liquid crystal display.